



Physics Seminar

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Friday November 14, 2008
PSC 3046
4:00 pm

The two-body problem of ultra-cold atoms in a harmonic trap.

We consider two bosonic atoms interacting with a short-range potential and trapped in a spherically symmetric harmonic oscillator. The problem is exactly solvable and is relevant for the study of ultra-cold atoms. We show that the energy spectrum is universal, irrespective of the shape of the interaction potential, provided its range is much smaller than the oscillator length.

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